

**LOUDOUN COUNTY, VIRGINIA
SCOTT JENKINS MEMORIAL PARK
CONTRACT NO. QQ-01594**

SECTION 02005 SPRIGGED ATHLETIC FIELDS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. The Contractor shall provide all labor, services, materials, equipment, and services necessary for, and incidental to preparation of ground surfaces, fertilizing, sprigging, mulching, and maintenance of turf areas as shown on the Drawings or as specified herein.
- B. Sprigging (Bermuda) shall occur between May 15 and August 15, unless approved by the Engineer.

1.3 SUBMITTALS

- A. Quality Control Submittals:
 - 1. Certification:
 - a. Submit manufacturer's or vendor's certified analysis for soil amendments and fertilizer materials to the Engineer.
 - b. Submit vendor's certified analysis for each grass required, stating botanical and common name to Engineer.
 - B. Maintenance Instructions: Submit Contractor's maintenance procedures for the contract's entire maintenance length. Maintenance procedures must be submitted with the bid. The Contractor will be responsible for maintenance until final acceptance the Bermuda Grass fields.

1.4 QUALITY ASSURANCE

- A. All work shall be performed by one (1) Contractor, with proven expertise in this type of field construction.
- B. Package standard products with the manufacturer's certified analysis. For other materials, provide analysis by recognized laboratory made in

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accordance with methods established by the Association of Official Agriculture Chemists, wherever applicable.

- C. The Contractor shall provide and pay for all costs in connection with an approved independent testing facility to determine conformance of materials with the specifications.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver packaged materials in containers, showing weight, analysis, and name of manufacturer. Protect materials from deterioration during delivery, and while stored on site.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Fertilizer:

1. Commercial starter fertilizer (19-26-5) with fine particles, chemically homogenous, having a minimum 75% of total nitrogen (19%) derived from urea and methylene ureas and a minimum of 26% monoammonium phosphate.
2. The POLY-S fertilizer shall be a 19-3-19* analysis, uniform particle size, have a minimum of 97% of the total nitrogen (19%) derived from polymer encapsulated coated urea, a minimum of 3% monoammonium phosphate and 19% from potassium sulfate.
3. The POLY-S product NPK Turf Fertilizer with Minors (19-3-19) shall be applied as specified.
4. Substitutions for 1-3 above will be allowed as approved by the Engineer.
5. Additional fertilizers or lime shall be applied (if required) per soil test recommendations.

B. Sprigs:

1. All sprigs shall be certified as to genetic purity and free from pests and disease. All sprigs shall come from a nursery approved by the

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Engineer. The Bermuda grass sprigs shall be Tifsport, Patriot, or approved equal.

2. All Bermuda grass shall have a minimum of eight (8) pounds live plant material per bushel and be free of weeds, dirt or foreign material and should maintain a length no longer than one and one-half inch (1-1/2") per stolon.

C. Water: Clean and potable.

PART 3 - EXECUTION

3.1 PREPARATION OF ROOT ZONE MATERIAL

- A. Mix starter fertilizer and POLY-S fertilizer into top 4 inches of root zone at a minimum rate of 6 lbs. per 1,000 square feet for the starter fertilizer and at a minimum rate of 7 lbs. per 1,000 square feet for the POLY-S fertilizer.
- B. Water dry root zone to depth of 4 inches at least 48 hours prior to sprigging to obtain a loose friable planting bed.
- C. The final planting bed must be smooth and surface free from water holding depressions or pockets.
- D. Prior to commencing sprigging, the Engineer shall review and accept the final planting bed.

3.2 SPRIGGING

- A. The Contractor shall provide and plant the grass sprigs by shredding the grass at the time of harvesting and by delivering it to the site and having it planted in the ground within 48 hours after it has been harvested. The grass will be planted by evenly distributing the sprigs, which shall be placed into the ground with a straight-disc type planter customarily used in athletic fields. All areas will be rolled with a smooth-type roller after planting.
- B. Apply sprigs at a rate of 400 bushels per acre if planted from May 15 to July 15, and 600 bushels per acre from July 15 to August 15.
- C. Before sprigging, Contractor shall require the Engineer to review the areas prior to sprigging. This review shall in no way relieve the Contractor of his responsibilities regarding the preparation of the soil, grading, installation of the irrigation system and other Work required by the Contract Documents.

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All deficiencies noted by the Engineer shall be repaired prior to sprigging.

- D. Water sprigged areas to a depth of four (4) inches (10.16 cm) as required during the maintenance period.

3.3 RECONDITIONING TURF AREAS

- A. Remove diseased or unsatisfactory turf areas; do not bury into soil. Remove root zone containing foreign materials resulting from Contractor's operations including oil drippings, stone, gravel, and other construction materials; replace with new root zone material.
- B. Provide fertilizer, sprigs, and soil amendments as specified for new turf and as required to provide satisfactory reconditioned lawn. Provide new planting soil as required to fill low spots and meet new finish grades.
- C. Cultivate bare and compacted areas thoroughly to provide a good, deep planting bed.
- D. Water newly planted areas and keep moist until new grass is established.
- E. Bermuda grass fields shall be re-sprigged if a rate of germination acceptable to the Owner and Engineer has not taken place within 4 weeks of sprigging. Areas greater than 2 square feet with little or no coverage will be re-sprigged.

3.4 PROTECTION

- A. Erect warning signs and barricades (consisting of stakes with plastic tape) as required by the Engineer or Owner to protect newly planted areas from pedestrian and vehicular traffic. Maintain barricades throughout maintenance period until turf is accepted by the Owner. If requested by the Owner, Contractor shall remove the barricades prior to acceptance of the newly planted areas.
- B. Repair or replace damaged landscape work as directed by Owner's Representative.

3.5 MAINTENANCE

- A. Include within the Contract Scope of Work and Contract Price the maintenance of turf immediately after each area is planted and continuing until final acceptance of the Bermuda grass fields.
- B. Maintain turf by watering, fertilizing, weeding, mowing, trimming, and other

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operations such as rolling, re-grading, and replanting as required to establish a smooth acceptable turf, free of eroded or bare areas. Maintenance shall be in accordance with the maintenance manual submitted with the bid and approved by the engineer.

- C. Re-sprig bare areas with the same materials specified for turf.
- D. Watering: The Contractor shall supplement natural precipitation to provide a total of 1.5 inches of water per week to all turf grass. Contractor shall be responsible for the germination and growth of sprigging as well as the general health of the turf.
- E. Mow turf as soon as there is enough top growth to cut with mower set at specified height for principal species planted. Repeat mowing as required to maintain specified height. Remove no more than 35 percent of grass leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet. Time initial and subsequent mowings to maintain the following grass height: Mow Bermuda grass from 1 inch to $\frac{3}{4}$ inch height.
- F. The Owner shall pay the cost of water for use in the irrigation system.

3.6 ACCEPTANCE

- A. Each field will be considered acceptable in its entirety when a healthy stand of grass is established covering at least 95% of the planted area and free of bare spots larger than 3" in diameter.
- B. When work is substantially completed, including maintenance, Engineer will, upon request, make an inspection to determine acceptability.
 - 1. All fields in a given sports precinct will be inspected in aggregate, provided work offered for inspection is complete, including maintenance. Acceptance of the fields shall be issued by precinct with the contractor's maintenance continuing on all fields until final acceptance.
- C. Replant rejected work and continue specified maintenance until re-inspected by the Engineer and Owner and found to be acceptable.

3.7 CLEANUP

- A. Promptly remove soil and debris created by turf work from paved areas. Clean wheels of vehicles before leaving the site to avoid tracking soil onto surface of roads, walks, or other paved areas.

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